

Abstract of the Disclosure

Streaming data is processed through one or more pipes of connected modules including mixers and/or splitters. The data is carried in composite physically allocated frames having virtual subframes associated with different ones of the splitters, mixers, and other transform modules. Nesting trees and pipe control tables represent the structure of the pipes. A frame allocator is assigned to a particular module in a pipe. Rather than issuing a control transaction to all modules when any one of them completes an operation upon its source data, a control manager requests a module to begin its operation only when all of its input subframes have become available. Frame control tables record when any module has completed an operation, and a pipe control table lists which modules provide data to which other modules.

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